

4 New Mexico NM MSSA

GRADE
6
MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

4

PRINTED
TESTS



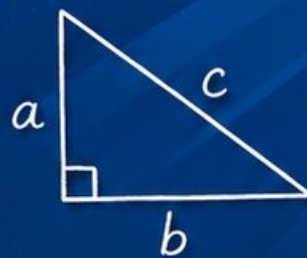
2

ONLINE
TESTS



- ✓ Build Confidence
- ✓ Master Key Math Skills
- ✓ Answer Explanations for Every Question
- ✓ Test-Taking Strategies That Work

$$2x + 5 = 21$$
$$x = 8$$



$$\frac{3}{4} + \frac{1}{2} = \frac{5}{4}$$



USE THESE TWO
**ADDITIONAL ONLINE
PRACTICE TESTS**

FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.

4 New Mexico NM-MSSA Grade 6 Math Practice Tests

Standards-Aligned High-Desert Math Clarity for New Mexico Measures of Student Success and Achievement



Four complete 40-question Grade 6 practice rounds for NM-MSSA, built for high-desert math clarity with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

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Welcome, New Mexico Math Explorer!

Four focused rounds using high-desert math clarity

This book gives you four full Grade 6 practice tests for NM-MSSA. Each round uses mesa views, desert colors, and thoughtful problem setup as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your New Mexico Practice Promise

Look for structure: identify the relationship, choose a representation, and check the result.

Read

Plan

Check

How to Use This Book

A four-session routine for high-desert math clarity

1. **Preview the skills.** Scan the quick review pages before beginning the first round.
2. **Work in order.** Take one 40-question test at a time in a quiet place.
3. **Mark confidence.** Put a small star beside problems where your plan felt strong.
4. **Correct actively.** Retry missed items before reading the full explanation.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

New Mexico review rhythm: Work a round, study the pattern of misses, and bring one cleaner method into the next test.



What Is Inside?

Four NM-MSSA tests, 160 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–4	Skill-building and final stamina rounds with expressions, equations, geometry, data, and problem models.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. High-desert math clarity means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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1) The table shows a constant rate. What is the rate per unit?

Hours	3	6	9
Cost (\$)	45	90	135

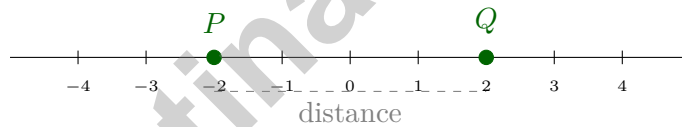
- A. \$12 per hour C. \$20 per hour
 B. \$25 per hour D. \$15 per hour

2) If a diver is at -45 feet relative to sea level, what is $|-45|$?

- A. -45 feet C. 0 feet
 B. 90 feet D. 45 feet

3) Which number is located exactly halfway between -2.5 and -1.5 ?

- A. -3 C. -1
 B. -2 D. -0.5

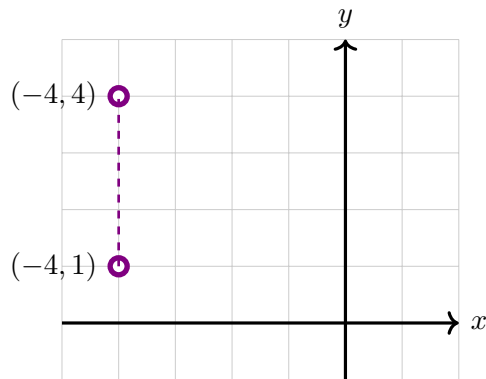


4)

The distance between P and Q is:

- A. 2 units C. 4 units
 B. 0 units D. -4 units



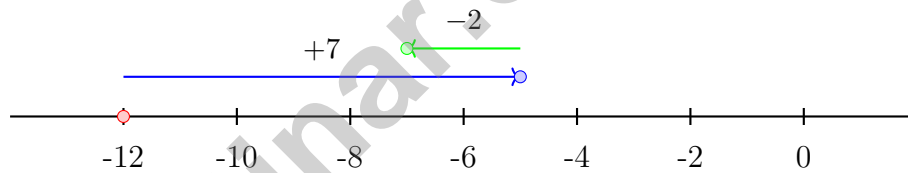


5)

Find the distance between $(-4, 1)$ and $(-4, 4)$.

- | | |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/> A. 2 units | <input type="checkbox"/> C. 4 units |
| <input type="checkbox"/> B. 5 units | <input type="checkbox"/> D. 3 units |

6) What is $-12 + 7 + (-2)$?



- | | |
|---------------------------------|--------------------------------|
| <input type="checkbox"/> A. -21 | <input type="checkbox"/> C. 7 |
| <input type="checkbox"/> B. -7 | <input type="checkbox"/> D. 21 |

7) A triangle has a base of 18 feet. If its area is 63 ft^2 , what is the height?

- | | |
|------------------------------------|-------------------------------------|
| <input type="checkbox"/> A. 3.5 ft | <input type="checkbox"/> C. 10.5 ft |
| <input type="checkbox"/> B. 14 ft | <input type="checkbox"/> D. 7 ft |



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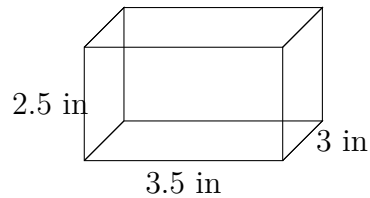
8) A trapezoid has an area of 56 in^2 and bases of 10 in and 6 in. What is the height?

A. 4 in

C. 7 in

B. 6 in

D. 14 in



9)

Find the volume.

A. 9 in^3

C. 26.25 in^3

B. 21 in^3

D. 31.5 in^3

10) A rectangle has vertices at $(3, 2)$, $(8, 2)$, $(8, 6)$, and $(3, 6)$. If a point is at $(8, 2)$, which vertex is diagonally opposite?

A. $(3, 6)$

C. $(8, 6)$

B. $(3, 2)$

D. $(8, 2)$

11) If 15 out of 50 marbles are red, what percent are red?



1) A freezer temperature is -18°C . It malfunctions and warms up by 6°C . What is the new temperature?

A. -24°C

C. 12°C

B. 24°C

D. -12°C

2) Which rewrite BEST converts a non-statistical question to a statistical one?

Original: "What is the population of Texas?"

A. What is the population of Texas today?

C. How many people live in major U.S. cities?

B. How has the population of Texas changed over time?

D. What is the population of the United States?

3) A student counts the number of jumping jacks completed by classmates and creates a frequency table. If the frequency of 25 jumping jacks is 3 and the frequency of 30 jumping jacks is 6, how many more students completed 30 jacks than 25 jacks?

Jumping Jacks	Frequency
20	2
25	3
30	6
35	4

A. 2 more students

C. 4 more students

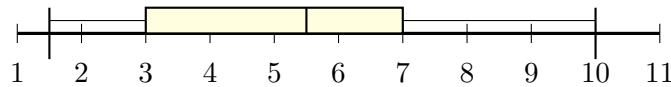
B. 9 more students

D. 3 more students



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4) Which value represents the minimum in this box plot?



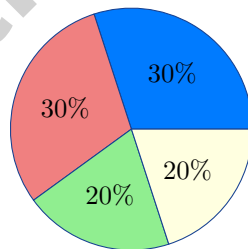
- A. 1.5
- B. 3
- C. 5.5
- D. 7

5) A student creates a stem-and-leaf plot with stems 3, 4, 5 and forgets to order the leaves. The correct ordered plot should have leaves from smallest to largest. Which plot shows an ordering error?

Incorrect	Stem	Correct
3, 7, 5	2	3, 5, 7
9, 2, 6	3	2, 6, 9

What is the error in the incorrect plot?

- A. Stems are not ordered
- B. The first leaf should be a stem
- C. Too many leaves in stem 3
- D. Leaves are not ordered from smallest to largest



6)

The circle graph shows survey results for 500 people. What is the central angle for the 30% section?

- A. 90°
- B. 135°
- C. 120°
- D. 108°



1)

Number of Days	Total Miles Walked
5	20
10	40
15	60

The table shows the relationship between days and miles walked. If d represents the number of days, which expression shows the total miles walked?

A. $d + 15$

B. $4d$

C. $\frac{d}{4}$

D. $d - 4$

2) A school orders 4,725 pencils to distribute equally among 15 classrooms. How many pencils does each classroom receive?

A. 315

B. 305

C. 325

D. 335

3) A recipe uses 2 cups of flour for every 1 cup of sugar. If you want to make a batch using 5 cups of flour, how many cups of sugar do you need? Explain your reasoning using the concept of proportionality.

4) Compute: $12.7 + 8.45$

A. 20.112

B. 4.25

C. 21.52

D. 21.15



5) Factor $20 + 16$ using the GCF.

A. $2(10 + 8)$

B. $4(5 + 4)$

C. $5(4 + 3.2)$

D. $8(2.5 + 2)$

6) A thermometer reads -5°F in the morning. By afternoon, the temperature has risen by 8°F . What is the new temperature?

A. 13°F

B. 3°F

C. -13°F

D. -3°F

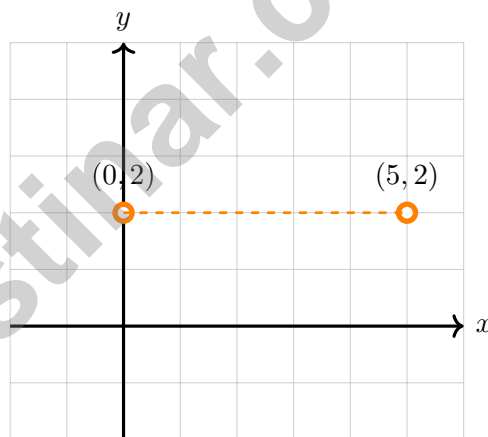
7) Which statement is false?

A. $-9 < -5$

B. $-2.5 > -3.5$

C. $-0.5 < 0.5$

D. $-7 > -3$



8)

What is the distance from $(0, 2)$ to $(5, 2)$?

A. 3 units

B. 4 units

C. 5 units

D. 6 units



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& answers

New Mexico NM-MSSA Practice Test Answer Keys

How to use this New Mexico NM-MSSA answer section with a Grade 6 student:

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to high-desert math clarity
3. rework the problem before reading the full explanation, using this reminder: Look for structure: identify the relationship, choose a representation, and check the result.

A calm New Mexico correction routine turns every missed item into useful practice. Work a round, study the pattern of misses, and bring one cleaner method into the next test.



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& answers

New Mexico Practice Test Answers and Explanations

Review the four printed NM-MSSA tests with thoughtful, clear, and ready for the next mesa habits.

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **(6.RP.A.3)** Unit rate: $45 \div 3 = 15$ dollars per hour. Verify: $90 \div 6 = 15$ and $135 \div 9 = 15$.
- 2) **Choice D is correct.** **(6.NS.C.7c)** The absolute value $|-45| = 45$ feet represents the magnitude of depth below sea level.
- 3) **Choice B is correct.** **(6.NS.C.6c)** Midpoint = $\frac{-2.5 + (-1.5)}{2} = \frac{-4}{2} = -2$.
- 4) **Choice C is correct.** **(6.NS.C.7d)** $P = -2$ and $Q = 2$. Distance = $2 - (-2) = 4$ units.
- 5) **Choice D is correct.** **(6.NS.C.8)** Same x -coordinate (-4) : $|4 - 1| = 3$ units.
- 6) **Choice B is correct.** **(6.NS.B.3)** $-12 + 7 + (-2) = -12 + 7 - 2 = -5 - 2 = -7$.
- 7) **Choice D is correct.** **(6.G.A.1)** $63 = \frac{1}{2} \times 18 \times h \Rightarrow h = 7$ ft.
- 8) **Choice C is correct.** **(6.G.A.1)** Using $A = \frac{1}{2}(b_1 + b_2)h$: $56 = \frac{1}{2}(10 + 6)h = 8h$, so $h = 7$ in.
- 9) **Choice C is correct.** **(6.G.A.2)** $V = 3.5 \times 2.5 \times 3 = 8.75 \times 3 = 26.25$ in³.
- 10) **Choice A is correct.** **(6.G.A.3)** Diagonal corners of a rectangle are $(3, 2)$ with $(8, 6)$, and $(8, 2)$ with $(3, 6)$. The diagonally opposite vertex to $(8, 2)$ is $(3, 6)$.
- 11) **The correct answer is 30%.** **(6.RP.A.3c)** $\frac{15}{50} = \frac{30}{100} = 30\%$ (multiply numerator and denominator by 2).
- 12) **Choice C is correct.** **(6.G.A.1)** Width: $11 - 3 = 8$ units. Height: $7 - 1 = 6$ units. Area = $8 \times 6 = 48$ square units.
- 13) **Choice C is correct.** **(6.NS.B.4)** This is a GCF problem. Prime factors: $32 = 2^5$ and $48 = 2^4 \times 3$. GCF = $2^4 = 16$. So they can make 16 gift sets with 2 mugs and 3 candles each.
- 14) **The correct answer is 15%.** **(6.RP.A.3c)** Percent discount is $\frac{30}{200} = 0.15 = 15\%$.
- 15) **Choice B is correct.** **(6.NS.C.8)** By definition, Quadrant II (upper left) has all points where $x < 0$ and $y > 0$.
- 16) **Choice C is correct.** **(6.SP.B.5)** With 6 values, the median is the average of the 3rd and 4th values: $(37 + 42) / 2 = 39.5$.
- 17) **Choice A is correct.** **(6.NS.B.3)** Coin flip: 2 outcomes (H or T). Die roll: 6 outcomes. Total = $2 \times 6 = 12$ outcomes.
- 18) **The correct answer is 2,500.** **(6.RP.A.3d)** Multiply by the conversion factor: $2.5 \text{ liters} \times 1000 \text{ mL/liter} = 2500 \text{ mL}$.
- 19) **The correct answer is The unit rate is 25 items per hour, and the y-value when x = 1 is 25.** **(6.RP.A.3a)** A is correct because $50 \div 2 = 25$ items per hour. D is correct because when $x = 1$, $y = 25$. Choice B is false for a proportional relationship, Choice C should be $y = 25x$, and Choice E is false.
- 20) **Choice B is correct.** **(6.NS.C.7d)** Proportional equations have the form $y = kx$ with no constant term. Only $y = 3x$ fits this form. Option A has a constant (+2), C is quadratic, and D has a constant term.
- 21) **Choice A is correct.** **(6.RP.A.3)** If 2 cm on the map represents 15 km, then 1 cm represents $15 \div 2 = 7.5$ km.
- 22) **Choice D is correct.** **(6.NS.A.1)** $1\frac{1}{2} = \frac{3}{2}$, so $\frac{3}{2} \div \frac{3}{4} = \frac{3}{2} \times \frac{4}{3} = \frac{12}{6} = 2$.
- 23) **Choice C is correct.** **(6.NS.B.2)** $5,280 \div 16 = 330$. Verify: $16 \times 330 = 5,280$.
- 24) **Choice A is correct.** **(6.NS.B.3)** Subtract: $\$34.50 - \$7.25 = \$27.25$.
- 25) **Choice D is correct.** **(6.NS.B.4)** The student only multiplied $5 \times 3 = 15$ instead of distributing to both terms. The correct solution is $5(3 + 8) = 5 \cdot 3 + 5 \cdot 8 = 15 + 40 = 55$. The area model shows both parts, confirming both must be distributed to.
- 26) **The correct answer is 25000.** **(6.NS.C.7d)** 25% of $\$100000 = 0.25 \times 100000 = \25000 .
- 27) **Choice B is correct.** **(6.NS.C.5)** Below sea level is represented by a negative integer. A depth of 25 meters below sea level is -25 meters.



Notes From Your Math Builder

Hi, Math Builder!

◇ Through 4 practice tests, you built your math house brick by brick. The walls are strong. The roof is on. You are ready for anything test day brings. ◇

★ **Builders know:** good plans make strong houses. You learned to plan, then build. That helps with any problem. ★

Builder's Tools

- **Foundation:** ROCK SOLID. Math facts are in place.
- **Frame:** STRONG. You can break problems into parts.
- **Walls:** TIDY. Your work is neat and clear.
- **Roof:** DONE. You always answer the question.

Builder tip: on test day, build each answer like a tiny house. Read first. Plan next. Do the math. Then check!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Builder

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 4 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

Perfect for classroom use, homework, test preparation, and extra practice at home.

THIS BOOK INCLUDES:

4 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answer Explanations

 **MORE PRACTICE.
GREATER RESULTS.**

Give your child the tools to build strong math skills, confidence, and a positive attitude toward learning.

WHAT YOU'LL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Deeper Understanding

Reinforce key concepts with clear explanations and meaningful practice.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

- ✓ Ratios & Rates
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ And More!



2 ONLINE TESTS

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